

# UNITED STATES PATENT AND TRADEMARK OFFICE

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PPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/024,511	12/21/2001	Shigeo Kittaka	02410268AA	2183
75	90 11/19/2002			
C. Lamont Whitham Whitham, Curtis & Christofferson, PC Suite 340 11491 Sunset Hills Road Reston, VA 20190			EXAMINER NGUYEN, TUAN M	
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			DATE MAILED: 11/19/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

Application No.   Application No.   Applicant(s)				/
Examiner   Tuan M Nguyen   2828		Application No.	Applicant(s)	
Tuan M Nguyen  -The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  B Respirate for reply specified above is less than thirty (30) days, a reply white he statutery influence of their growing of the period of the reply specified above is less than thirty (30) days, a reply white he statutery influence of their growing of the period of the reply specified above is less than they (30) days, a reply white he statutery influence of their growing of the statutery influence of their growing of their growin		10/024,511	KITTAKA ET AL.	
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2a)  This action is FINAL. 2b)  This action is non-final.  3   Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4)  Claim(s) 1-13 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  5)  Claim(s) is/are allowed.  6)  Claim(s) 1-13 is/are rejected.  7)  Claim(s) is/are objected to.  8)  Claim(s) are subject to restriction and/or election requirement.  Application Papers  9)  The specification is objected to by the Examiner.  10)  The drawing(s) filed on is/are: a) = accepted or b)   objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  11)  The proposed drawing correction filed on is: a)   approved b)   disapproved by the Examiner.  12)  The oath or declaration is objected to by the Examiner.  Priority under 35 U.S.C. §§ 119 and 120  13)  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a)  All b)  Some * c)  None of:  1.  Certified copies of the priority documents have been received in Application No  3.  Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  *See the attached detailed Office action for a list of the certified copies not received.  14)  Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  a)  The translation of the foreign language provisional application has been received.  15)  Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.	A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statute  - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may y within the statutory minimum of will apply and will expire SIX (6) No., cause the application to become	v a reply be timely filed thirty (30) days will be considered time IONTHS from the mailing date of this ABANDONED (35 U.S.C. § 133).	∍ly. communication.
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#### **DETAILED ACTION**

### Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-13 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding to claim 1, claim recites an optical device made of a periodic multiplayer structure. The claim fails to recite any periodic multiplayer structure, and any structural relationship in order to support the claim, which render the claim confusing, vague and indefinite.

Regarding to claim 10, the claim recites a semiconductor laser without any structure and any structural relationship in order to conform the laser structure. The claim also recites a first surface substantially perpendicular to layer surfaces of the periodic multiplayer structure and a second surface substantially parallel to the layer surfaces of the periodic multiplayer structure. It is unclear as what the first/second surfaces substantially is meant which render the claim confusing, vague and indefinite. The claim further recites a semiconductor laser confronted with the first surface, and a photo detector confronted with the second surface without the recitation of any means plus function as require by 35 USC 112, 2<sup>nd</sup> paragraph.

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 10 are rejected under 35 U.S.C. 102(b) as being anticipated by Normandin et al (5,111,466).

With respect to claims 1 and 10, Normandin discloses optical multiplayer structure comprising a periodic multiplayer structure (71), a laser source (73) and light detected by a detector (79), note col. 7, see fig. 9.

With respect to claim 2, Normandin discloses a multiplayer film formed on a substrate transparent to the wavelength, note col. 8, see fig. 10.

With respect to claim 3, Normandin discloses the multiplayer structure having layer faces perpendicular to a surface of a substrate, see fig. 10.

With respect to claims 4-9, Normandin discloses a semiconductor laser (85) and photo detector (93) and substrate (83), note col. 8, see fig 10.

With respect to claim 11, Normandin discloses common substrate supporting the optical device, semiconductor laser and photo detector, note cols. 7-8, see figs. 9-10.

With respect to claims 12-13, Normandin discloses substrate (83), multiplayer structure (81), note col. 8, see fig. 10.

#### **Citation Of The Pertinent References**

3. The prior art made of record and not relied upon us considered pertinent to applicant's disclose.

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The patent to Duveneck et al (US patent 6,469,785) discloses optical detection device based on semiconductor laser array.

The patent to Sekiguchi (US patent 5,299,045) discloses light detecting apparatus having a diffraction grating.

The patent to Inoue et al (US patent 5,033,810) discloses optical device.

## **Communication Information**

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tuan M Nguyen whose telephone number is (703) 306-0247. The examiner can normally be reached on 8am to 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paul Ip can be reached on (703) 308-3098. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 306-5511 for regular communications and (703) 306-5511 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 306-3329.

Paul Ip

SPE

Art unit 2828

**TMN** 

November 15, 2002